Contents

Arbib, M. A., Lara, R.: A Neural Model of the Interaction of Tectal Columns in Prey-Catching Behavior 185

Braccini, C., Gambardella, G., Sandini, G., Tagliasco, V.: A Model of the Early Stages of the Human Visual System: Functional and Topological Transformations Performed in the Peripheral Visual Field 47

Christakos, C. N.: A Linear Stochastic Model of the Single Motor Unit 79

Christakos, C. N.: A Study of the Muscle Force Waveform Using a Population Stochastic Model of Skeletal Muscle 91

Crowe, A., Naeije, M., Tanke, R. H. J.: The Effects of β Motor Stimulation on the Interpretation of Signals from Muscle Spindles 9

Dooren, J. A. H. Q., van, Vis, A.: A Reinvestigation of the Geman-Miller Respiratory Oscillator Model 205

Doorn, A. J., van, Koenderink, J. J.: Visibility of Movement Gradients 167

Ducati, A., Parmiggiani, F., Schieppati, M.: Simulation of Post-Tetanic Potentiation and Fatigue in Muscle Using a Visco-Elastic Model 129

Fahle, M.: Cooperation Between Different Spatial Frequencies in Binocular Rivalry 27

Fleischer, H.: Calculating Psychoacoustic Parameters of Amplitude Modulated Narrow Noise Bands 177

Game, C. J. A.: BVP Models: An Adjustment of Express a Mechanism of Inactivation 223

Geiger, G., Nässel, D. R.: Visual Processing of Moving Single Objects and Wide-Field Patterns in Flies: Behavioural Analysis After Laser-Surgical Removal of Interneurons 141

Gielen, C. C. A. M., Gisbergen, J. A. M., van, Vendrick, A. J. H.: Reconstruction of Cone-System Contributions to Responses of Colour-Opponent Neurones in Monkey Lateral Geniculate 211

Hollerbach, J. M., Flash, T.: Dynamic Interactions Between Limb Segments During Planar Arm Movement 67

Kemmerling, S. Varjú, D.: Regulation of the Body-Substrate-Distance in the Stick Insect: Step Responses and Modelling the Control System 59

Kilmer, W., Kroll, W., Congdon, V.: An EMG-Level Muscle Model for a Fast Arm Movement to Target 17

Koch, A. S., Nienhaus, R., Lautsch, M.: Metastable Equilibrium with Random Local Fluctuations: Stimulations of Dynamic Receptor Pattern Generation in a Fluid Mosaic Membrane 121

Kohonen, T.: Analysis of a Simple Self-Organizing Process 135

Lacquaniti, F., Licata, F., Soechting, J. F.: The Mechanical Behavior of the Human Forearm in Response to Transient Perturbations 35

Mori, T.: Apparent Motion Path Composed of a Serial Concatenation of Translations and Rotations 31

Murakami, K., Aibara, T.: Optimal Association with PartlyMissing Key Vectors 151

Oğuztöreli, M. N.: Response Analysis of Vertebrate Retina 1

Smith, R. L., Brachman, M. L.: Adaptation in Auditory-Nerve Fibers: A Revised Model 107

Teich, M. C., Prucnal, P. R., Vannucci, G., Breton, M. E., McGill, W. J.: Multiplication Noise in the Human Visual System at Threshold. 3. The Role of Non-Poisson Quantum Fluctuations 157

Tsukada, M., Terasawa, M., Hauske, G.: Temporal Pattern Sensitive and Nonsensitive Responses in the Cat's Retinal Ganglion Cells 197